

Meeting the needs of patients with disabilities.

How can we better prepare the new dental graduate?

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In Brief

- Suggests that final year undergraduate dental students from one UK dental school report differing levels of experience and knowledge of disability and varying degrees of preparedness and self-efficacy in meeting the needs of patients with disabilities.
- Highlights the need for more structured education in the field of Special Care Dentistry with a greater emphasis on mastery experience and exposure to people with disabilities both on a clinical and community basis.

ABSTRACT

Background: Over the last two decades, the introduction of equality legislation has resulted in disabled people having improved opportunities and better access to services. Within the field of Oral Health Care the specialty of Special Care Dentistry exists to act as an advocate for those with disabilities and it is recognised that there is a need “*to reduce inequalities between patients in access to, and outcomes from, healthcare services and to ensure services are provided in an integrated way where this might reduce health inequalities*”⁶.

To ensure the future dental workforce is able to respond to the needs of those with disabilities education is key which raises the question “Are we adequately preparing future dental professionals to fulfil their obligations?”

Aim: To explore final year dental students’ insight into issues of disability, in order to inform the undergraduate Special Care Dentistry programme.

Method: Qualitative methods using focus groups were employed to address the research issue. The data were analysed using Thematic Analysis.

Results: Four main themes were identified; ‘perceptions of disability’, ‘experience of disability’, ‘patient management’ and ‘teaching and learning’. The level of preparedness varied among students and could be attributed to, knowledge of disability issues, previous experience with people with disabilities and how education in the field of Special Care Dentistry was delivered. Students identified the need for more structure to their teaching and increased exposure to the disabled community.

Conclusion: The issues identified reflect current literature and highlight the importance of addressing disability within the wider undergraduate curriculum. Responding to the ‘student voice’ has the potential to tailor elements of the Special Care Dentistry programme, to address their educational needs.

Background

Over the last two decades, the introduction of equality legislation has resulted in disabled people having improved opportunities and better access to services. However, many individuals continue to encounter a range of challenges, often related to attitudes and behaviours within society.

It is well documented that good oral health contributes strongly to general health and therefore quality of life^{1,2}. The literature suggests that people living with disabilities have poorer oral health, high levels of unmet need, limited access to appropriate oral health care facilities^{3,4}, and often experience a poorer quality of life as a result. The UK Adult Dental Health Survey of 2009 reported a marked improvement in the oral health of the adult population, with more people retaining their teeth to an older age⁵ and it has been predicted that further improvements will be seen as the younger generation ages. Consequently, the dental profession will be faced with a challenge to provide care for those with disabilities, who will potentially present with a heavily restored dentition, but who are less able to access and cope with treatment.

The specialty of Special Care Dentistry exists to act as an advocate for those with disabilities and NHS England has recently published a document describing the commissioning process for Special Care Dentistry services⁶. The document states that throughout its development due regard has been given “*to the need to reduce inequalities between patients in access to, and outcomes from, healthcare services and to ensure services are provided in an integrated way where this might reduce health inequalities*”⁶.

The use of care pathways to promote organised and efficient patient care is highlighted with three levels of case complexity being described; level one is of particular relevance in that it is described as “Special care needs that require a skill set and competence as covered by dental undergraduate training and dental foundation training.” Delivery of care at this level relies on appropriate undergraduate training and the document stresses, “To enable members of dental

teams to meet the competencies required at level one to provide care for patients with special care needs, it is important that dental schools, universities incorporate Special Care Dentistry within their curricula as a specific specialty subject”.

Education is key to preparing the future dental workforce to respond to the needs of those with disabilities and it is important we assess students’ sense of preparedness to better understand their development needs. Many of the studies carried out to consider preparedness in the field of Special Care Dentistry have relied on quantitative methods using questionnaires asking students to rate how confident they feel. This methodology however is unable to capture insight and feelings which all contribute to a more holistic view of the students’ experiences.

Using qualitative methods such as focus groups it is possible to capitalise on the communication and discussion between participants providing context and a deeper understanding of the phenomenon being studied^{7,8}

As such a pilot study was designed to explore final year dental students’ insight into issues of disability, perceptions of their preparedness to meet the needs of patients with disabilities and what factors had influenced this sense of preparedness.

Aim

To explore final year dental students’ insight into issues of disability, in order to inform the undergraduate Special Care Dentistry programme.

Research Questions

1. What are students’ perceptions of their preparedness to meet the needs of patients with disabilities?
2. What has influenced this sense of preparedness?

Method

The study was conducted at the University of Newcastle upon Tyne, School of Dental Sciences, in December 2016 and received ethical approval from the Faculty of Medical Sciences Research Office (1219/2015).

Research Team

The research team included three university staff members and a final year dental student. The dental student was invited onto the team to contribute the views of their peers into the design, running and analysis of the study.

Study design

Focus groups were chosen as the method of data collection, as they provide a social context within which the phenomenon is viewed, capitalising on the communication and discussion between participants^{7,8}

Sampling Strategy

Non-probability, ‘purposive’ sampling was used. As the work sought to determine how prepared students felt about dealing with those with disabilities once qualified, the final year group were considered to be at an appropriate stage to reflect on this issue and so provided the sample frame. All 82 undergraduate final year dental students were emailed initial study information and asked to contact the principle investigator if interested. Every effort was made to select participants from different study groups and of different gender. The students selected were provided with a detailed participant information sheet and written consent was gained.

Sample size: There are no statistical grounds for determining focus group sample size; the ideal size is 5 to 8 people⁸. The intention for this study was to recruit at least 7 participants for each focus group

Running the focus groups

1. *Developing a Topic Guide:* The primary researcher, along with three members of the research team, were instrumental in developing the topic guide which would act to guide the discussion (Figure 1).
2. *Conducting the focus group:* The primary researcher acted as the group moderator and the research team final year dental student, acted as an observer. Owing to time constraints a maximum of two focus groups were planned, to be carried out at a convenient location/time for the students. Stages of the group process are illustrated in Figure 2. Both groups were audio recorded to provide a verbatim record; all data were stored securely on a password protected computer file.

3. *Data Analysis*

A professional transcriber was employed to transcribe the audio recordings. The transcripts were then reviewed using the process of Thematic Analysis, as described by Braun and Clarke⁹. This was initially carried out independently by three members of the research team; a meeting was then held to deal with any conflicting views. This was an iterative process being repeated two further times until the final sub themes and themes were agreed.

Results

Demographics

Of the 82 final year dental students at Newcastle School of Dental Sciences, a total of 16 took part in the study. The final year cohort is split into ten study groups; seven participants, three male and four female, with representatives for study groups 1,3,4,5,6 and 9 were involved in focus group 1. Focus group 2 included nine participants, one male and eight females from study groups 2,3,4,5,7,10. (Figure 3)

Emergent Themes

Following analysis of the transcripts four main themes emerged (Table 1). The sub themes and themes are presented supported by a selection of quotes coded by participant number to demonstrate a range of views from the majority of the students.

Theme 1 – Perceptions of Disability

Defining Disability

The dental students' perceptions of disability centred around the medical model where a person's disability is used to define them and the impairment is seen as the problem.

"A person that's less able than a normal person...that may be a physical problem or it may be a mental problem" [P2]

Some participants believed disability to be physical or mental with little reference to the broader definition.

"I was going to say it's probably any impairment that affects someone's day-to-day life, be it physical or mental" [P8]

*“...like an impairment of some kind, like participant number 2 says, physical or mental...”
[P5]*

There was an acknowledgement that disability effects not only the individual but also has an impact on those acting as carers.

“...for me there’s the disability side but then there’s also the carer’s side and how far they are affected by things” [P6]

Social and Equality issues

Some believed society still views disability from a negative perspective whilst others felt that there is a greater recognition of the need to be more inclusive, recognising the need for equality amongst vulnerable groups.

“So I think a lot of society perceive it as something like really unnerving and don't know how to act around it or how to treat people” [P13]

“It's becoming more common in society and people are becoming more accepting of it...” [P14]

Theme 2 – Experience of Disability

Social Setting

Participants reported experience of disability through voluntary work, having a relative with a disability or through the media. These students appeared to have a level of insight into issues relating to disability and an empathy for the impact on the individual and their families.

“...my school has a partnership with a local special needs school.... the girl I was partnered with she had global development delay. She had very poor communication. And at first I didn't really know how to interact with her and I found it quite uncomfortable.... it was only when we were given that time alone that I felt able to give it a go....” [P10]

Clinical Setting

The level of clinical experience relating to disability varied amongst students and those who had experience reported the positive effect this had on their level of comfort in dealing with this patient group.

“I got a patient who was physically disabled and also had early dementia and even simple things and so I was quite intimidated when I first had to treat that patient and I think having a bit of experience with her made me more comfortable, but it was quite an issue for me to begin with” [P5]

Theme 3 – Patient Management

Professional Responsibility

There was a general sense that dentists have a professional responsibility to address the oral health needs of all patient groups without discrimination and an acknowledgement that undergraduates need to learn about dealing with a wide range of patients, including those with disabilities.

"I think that everyone should have the right to get dental treatment.... Someone said to me that toothache is the world's greatest equaliser because it's a constant pain that can affect everyone..... I think we can have a role in making sure that everyone's treated appropriately" [P7]

"I think you have to be very open to the idea that your patients could be from anywhere because, if not, it's basically a type of prejudice" [P14]

Preparedness

The sense of preparedness was very variable; some students expressed concern and discomfort about the prospect of treating patients requiring special care voicing strong feelings about this.

"If I was given someone with a severe learning difficulty or mental disability or someone who came in in a wheelchair I wouldn't be comfortable.. I wish I could say, 'Oh yeah, this is going to be really easy. I know how to deal with this.'" [P14]

Whilst others indicated they would look forward to and be comfortable in managing such patients.

"I've had quite a lot of experience with it so I'm quite comfortable..."[P13]

Issues influencing perceptions of preparedness

Discomfort with providing patient care was linked to lack of confidence in knowing how to communicate effectively with patients and their carers.

"...you feel a bit lost...when you're communicating with them (Learning Disability patients) what their understanding level is. So you don't know."[p12]

"I guess communication with cerebral altered speech you might struggle more with understanding the patient, possibly" [p14]

The anticipated time pressures of general dental practice were also identified as being an influencing factor with the acknowledgement that in general practice time may be limited due to the requirement to deliver quotas and units of dental activity if working in England and Wales.

"I think time as well might be a factor, I think probably linked to communication about how long you can spend with people" [P3]

"I think the time thing is a big influence on special care" [P13]

Theme 4 – Teaching and Learning

Barriers and Facilitators to teaching and learning

Lack of exposure to patients with disabilities was quoted as a barrier to learning.

“...without the exposure you can learn the theories behind it but it's very hard to put into practice” [P4]

“I think it's very rare that you do get that kind of exposure in the dental hospital” [P7]

Students believed they would benefit from more exposure to patients with disabilities through shadowing on Special Care clinics in the Out Reach clinics with experienced staff from the Community Dental Service.

“I think yes, shadowing seems like a really good idea..... I think just seeing more experienced people and how they deal with it really can help in you being able to pick up ideas and tips and things” [P5]

Linking with disability groups in the community was raised as a means of engaging with society and learning about the broader issues of the needs of patients.

“So maybe forming more links in the community with others” [P12]

Small group seminars involving people with disabilities were felt to a useful way of learning about specific impairments and gaining opinions of what patients want.

“...to get people in with disabilities, they could tell you how they would want a dentist appointment to run” [P1]

Discussion

The overall aim of this research study was to explore students' insight into the issues of disability and to consider how prepared they felt for clinical practice in the field of Special Care Dentistry.

Having insight into the needs of those with special care requirements may play a key role in how students approach patient care. Through the theme *'Perceptions about Disability'*, this issue was explored and it became apparent that students' views about disability were varied, many centering on the medical model, identifying disability as being the individual's problem, with limited reference being made to society's role in disabling rather than enabling those with impairments.

“A person that's less able than a normal person...that may be a physical problem or it may be a mental problem”

Some participants did however show greater insight into the social aspects of disability and the wider implications of how society with the discussion developing to focus on the importance of 'enabling' people with disabilities. This challenged the participants to consider their professional responsibilities and there was a strong sense that all members of society had a right to equality in the provision of health services.

Having identified their professional obligations, the students were encouraged to consider how prepared they felt with regard to the reality of meeting these obligations in relation to those with disabilities. Ali stresses that the sense of preparedness will be greatly influenced by the individual's own self-efficacy¹⁰; without this, students may be more likely to perceive themselves as being less well prepared.

Self-efficacy beliefs, described by Bandura¹¹ as, "people's judgements of their capabilities to organise and execute courses of action required to attain designated types of performances", can provide a useful measure alongside more formal assessment methods.

It has been suggested that students with high self-efficacy choose to engage in activities supporting the development of their attitudes, knowledge and skills. By addressing students' self-efficacy, medical educators may be able to deliver more engaging and effective instruction. Sources which may influence self-efficacy have been postulated by Bandura¹²:

- (i) Through '*mastery experiences*' (carrying out an activity); success builds a sound belief in one's own efficacy while failures undermine it.
- (ii) '*Vicarious experiences*', in the form of watching others succeed, influences the observer's belief that they too are capable of the activity.
- (iii) '*Social persuasion*' where the individual is influenced by positive feedback.
- (iv) In order to increase self-efficacy, '*reducing peoples' stress reactions*' to situations, will have a positive influence.

In answering the research questions it was noted that there was variation in students' perceptions regarding their preparedness and self-efficacy related to several influencing factors linked to the emergent themes; '*Perceptions about disability*', '*Experience of Disability*', '*Patient Management*' and '*Teaching and Learning*'. Elements of each will be drawn upon and woven together during the formative years from undergraduate to practicing clinician, influencing the extent of self-efficacy beliefs and how prepared students feel about meeting the needs of those with disabilities.

Considering this issue in context to the focus group discussions, there appeared to be marked variation in students' sense of self-efficacy suggesting that not all would necessarily attempt to meet their obligations. Some believed they would have the ability to care for those with disabilities whilst some believed they would be out of their comfort zone and lacking in confidence.

These issues are further explored by considering the second research question.

What has influenced students' sense of preparedness?

In considering the students' views regarding what had influenced their sense of preparedness, links can be made between the emergent study themes and Bandura's theory of self-efficacy¹¹.

Mastery Experiences

The students identified where they had had personal experience of people with disabilities be it in a social, clinical or educational context, this provided them with a foundation on which to build their knowledge and skills. Here the 'mastery experience' component of Bandura's theory has been raised as an important element of personal development.

"I've had quite a lot of experience with it so I'm quite comfortable..."

This echoes the dental literature, where it has been suggested that exposure to people with disabilities is a major factor influencing students' intentions to care for vulnerable groups; more favourable attitudes, towards those with physical disabilities, were associated with greater professional and social experience of these people^{13,14,15}

Leading on from this, an interesting reflection emerging in the later stages of the focus group discussion, was the benefit of engaging with disability groups within the community. Such interaction was considered valuable in learning more about the social as well as clinical needs of vulnerable groups, demonstrating insight into the broader issues of disability awareness.

"So maybe forming more links in the community with others"

Vicarious Experiences

By watching others succeed individuals generates efficacy beliefs that they too can attain the ability to be successful. The opposite however may be true, where seeing others struggle in a situation may lower the observer's opinion of their own efficacy¹⁶.

The students in the current study identified the benefit of such opportunities in the form of shadowing experienced clinicians; they recognised the importance of reflecting on how different clinicians approached patient management and communication.

"I think yes, shadowing seems like a really good idea..... I think just seeing more experienced people and how they deal with it really can help in you being able to pick up ideas and tips and things"

Considered a valuable educational platform, it was believed watching and learning from others had enabled them to gain a deeper understanding of the challenges of communication, access issues and treatment provision.

Social Persuasion

Verbal persuasion or feedback from others, although considered a weaker influence on self-belief, has been quoted to be widely used in academic environments to assist students in believing that they can cope with challenging situations¹⁷. This source was recognised by the students as being an important aspect of their development, alongside experience and vicarious learning. How a student processes and interprets feedback however will influence their learning and impact on their self-development; constructive comments have the potential to foster strong self-efficacy, whilst negative support can diminish an individual's drive to improve.

Other influences

Linking into the theme of 'Teaching and Learning', where Special Care Dentistry sits within the undergraduate curriculum and how it is delivered, were identified by participants as

influencing factors in preparing them for practice. A lack of structured education at undergraduate level, can lead to graduates feeling less able to address patient needs and has been cited as a barrier to the delivery of care to those with disabilities^{17,18,19,20}. Didactic teaching was not considered greatly beneficial by some students; much greater importance was placed on experiential learning through interacting with patients and carers, in line with the theory that mastery experience greatly enhances self-efficacy beliefs as discussed above.

Credibility of study

To ensure credibility of the findings several provisions were made:

- Adoption of well-established research methods in the form of focus groups⁷.
- Data source triangulation with similar viewpoints emerging from each focus group:
- Peer scrutiny was achieved through the primary-researcher being supported by a research team.
- Member checking was carried out seeking comments from participants on the accuracy of the findings.

Limitations of the work

- The main author and focus group facilitator was a senior member of staff with a particular interest in disability issues which may have influenced participants' responses.
- Approximately one quarter of the final year group showed an interest in taking part in the study; reasons the other students did not volunteer were not sought.
- Opinions were not gathered from patients themselves, who may have opinions on how prepared they believe students to be.
- The focus of this study was dental undergraduate training and limited to a particular group of students at one university, it is therefore not possible to generalise the findings.
- Another group who may have contributed are the clinical teachers and again they were not involved in the current study.

Conclusion

By using focus groups to discuss experiences, perspectives and behaviours around disability amongst final year dental students at Newcastle University, it was anticipated that ideas for developing the delivery of the Special Care Dentistry Curriculum could be generated. It is accepted that this was a pilot study and as such the data generated limited, however as all participants were consumers of and actively engaged in dental education, and had shown particular interest in the topic of disability, the assumption was that data generated would be valuable and transparent.

The results of the study resonate with the majority of the literature, in that students reported different levels of experience and knowledge of disability and varying degrees of preparedness and self-efficacy in meeting patients' needs. Closely aligned to Banduras theory of Self-efficacy¹⁶ which considers 'mastery experience' to be the most powerful influence of efficacy beliefs, students who had encountered people with disabilities at a social level, through volunteering, family or friends, had a strong sense of self-efficacy; added to this, if clinical exposure was reported, students again felt more comfortable dealing with this patient group. All agreed that the benefits of social and or clinical interaction with the disabled community would greatly enhance their professional development.

By sharing research frameworks and educational models, we have the potential to deliver appropriate health care services to those most vulnerable within our society; and as stated in Article 1 of the 'Convention on the Rights of Persons with Disabilities'²¹,

"...to ensure the full and equal enjoyment of all human rights and fundamental freedoms by all persons with disabilities, and to promote respect for their inherent dignity".

Recommendations

To enhance preparedness and self-efficacy in meeting the needs of those with disabilities the main area highlighted by the students was the value and importance of exposure to people with disabilities. As such the following recommendations may be valuable when reviewing delivery of the Special Care Dentistry Curriculum at Newcastle University and future research:

1. Increase exposure to the management of patients with disabilities through for example shadowing experienced clinicians or online resources.
2. Develop links with disability groups within the community
3. Organise small group seminars involving patients with disabilities

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Figure 1: Topic Guide

- ❖ **The meaning of disability**
How is disability perceived?
Consider medical and social models / Views on disability issues
- ❖ **Experience of disability**
Personal, Clinical, Volunteering - Provide examples
- ❖ **Attitude toward patient with disability**
Ease and feelings of attending to a person with a disability
Effect of the students UG education on this
- ❖ **Undergraduate teaching in SCD**
Their views and ways to develop the SCD teaching
- ❖ **Summarise main issues discussed**
Seek clarification on key points raised using field notes
Thank participants and explain what the next stage of the study will be
Advise how to address any queries following the session

Figure 2: Stages of the Focus Group

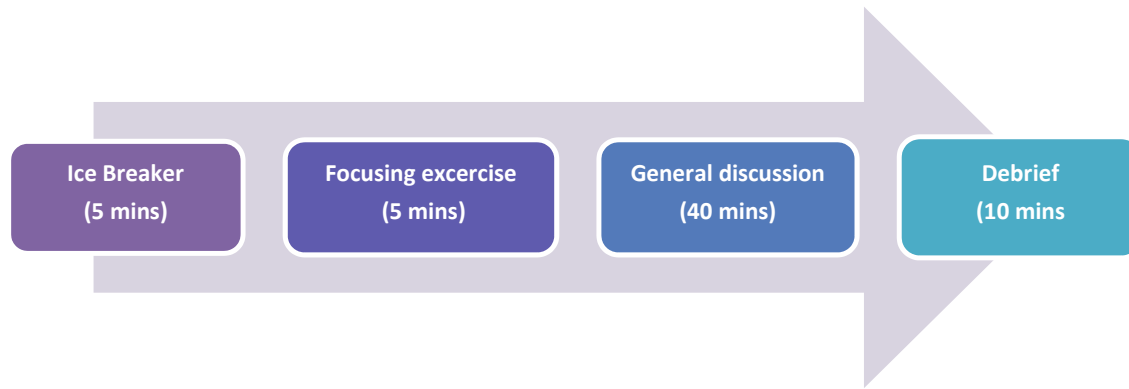


Figure 3 Sample

Selection

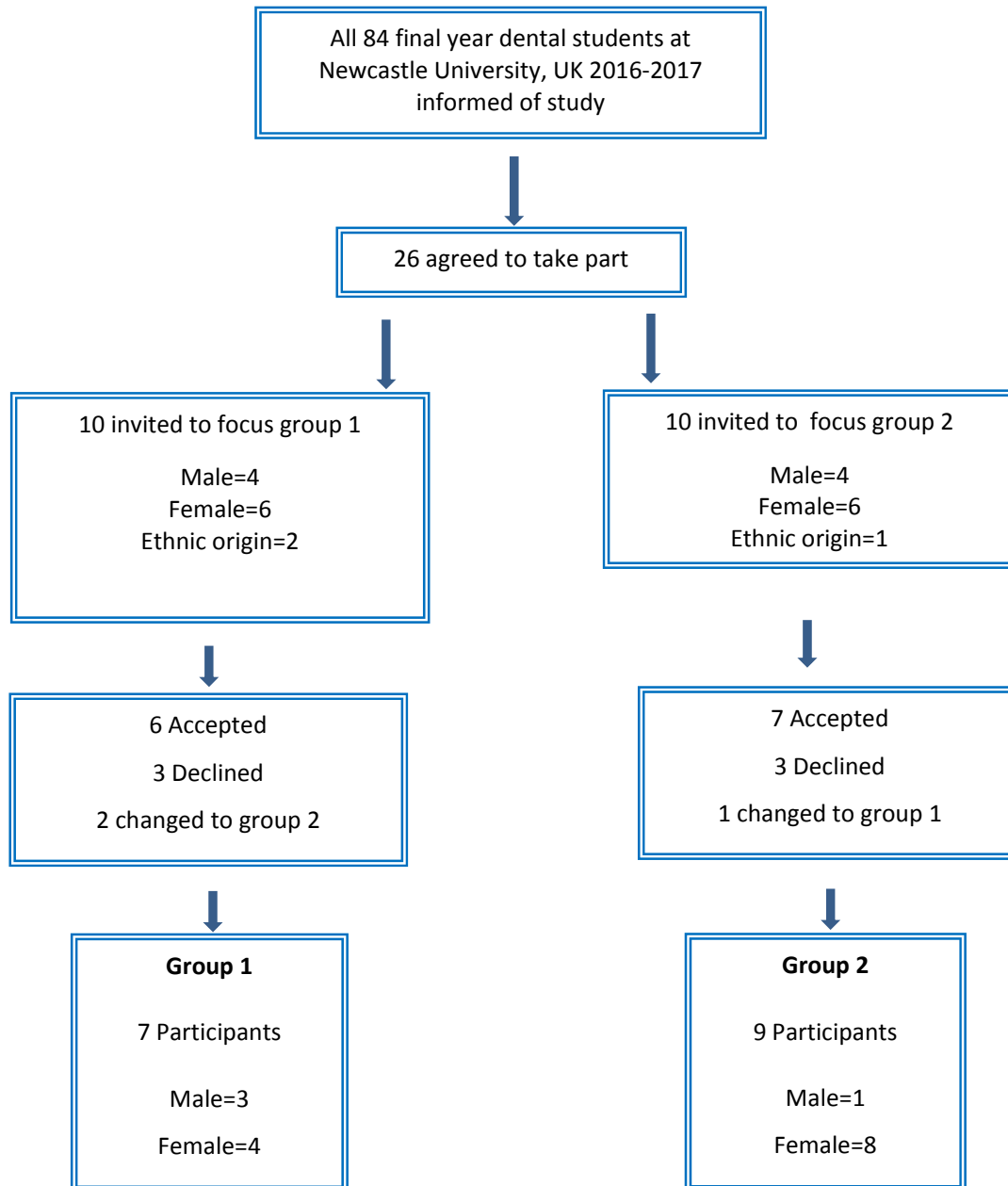


Table 1: Theme Development

CATEGORIES	SUB THEMES	THEME	THEME DEFINITION
<ul style="list-style-type: none"> Models of disability Equality issues Society's role Levels of ability 	<ul style="list-style-type: none"> ➤ Defining disability ➤ Social responsibility ➤ Equality 	Perceptions of Disability	This theme describes how students view and interpret the concept of disability. It provides in site into their general understanding and knowledge of the issues presenting to the individual and society as a whole.
<ul style="list-style-type: none"> Variation in levels of experience Clinical experience Experience in a social setting 	<ul style="list-style-type: none"> ➤ Social Setting ➤ Clinical Setting 	Experience of Disability	Students' contact and observations of people with disabilities in any setting is presented in this theme. It explores their personal exposure to disability issues
<ul style="list-style-type: none"> Confidence levels Barriers to care Feeling prepared Professional responsibility 	<ul style="list-style-type: none"> ➤ Professional Responsibility ➤ Preparedness ➤ Barriers 	Patient Management	This theme presents the students thoughts centered around addressing the oral health care needs of patients with disabilities, including social factors, access to care and treatment modalities. It explores the notion of professional responsibility and duty of care
<ul style="list-style-type: none"> Shadowing/exposure to patients Lack of structure in education Benefit of training at Foundation level Patient involvement Teaching methods and timing Barriers 	<ul style="list-style-type: none"> ➤ Format of teaching & learning ➤ Barriers ➤ Facilitators 	Teaching and Learning	In this theme, we explore how disability issues are addressed in the BDS undergraduate curriculum and gain an awareness of students' views of their educational experiences in this field.